



LL	IIIIII	BBBBBBBB	MM	MM	000000	VV	VV	CCCCCCCC	333333
LL	IIIIII	BBBBBBBB	MM	MM	000000	VV	VV	CCCCCCCC	333333
LL	II	BB	MMMM	MMMM	00	VV	VV	CC	33
LL	II	BB	MMMM	MMMM	00	VV	VV	CC	33
LL	II	BB	MM	MM	00	VV	VV	CC	33
LL	II	BB	MM	MM	00	VV	VV	CC	33
LL	II	BBBBBBBB	MM	MM	00	VV	VV	CC	33
LL	II	BBBBBBBB	MM	MM	00	VV	VV	CC	33
LL	II	BB	MM	MM	00	VV	VV	CC	33
LL	II	BB	MM	MM	00	VV	VV	CC	33
LL	II	BB	MM	MM	00	VV	VV	CC	33
LL	II	BB	MM	MM	00	VV	VV	CC	33
LLLLLLLL	IIIIII	BBBBBBBB	MM	MM	000000	VV	VV	CCCCCCCC	333333
LLLLLLLL	IIIIII	BBBBBBBB	MM	MM	000000	VV	VV	CCCCCCCC	333333
....	....	....	....	....	....	....	....	....	....

LL	IIIIII	SSSSSSSS
LL	IIIIII	SSSSSSSS
LL	II	SS
LLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLL	IIIIII	SSSSSSSS

(2) 46  
(3) 75

DECLARATIONS

LIB\$MOVC3 - Execute MOVC3 instruction

0000 1 .TITLE LIB\$MOVC3 - Execute MOVC3 instruction  
0000 2 .IDENT /1-001/ ; File: LIBMOVC3.MAR Edit: SBL1001  
0000 3  
0000 4  
0000 5 \*\*\*\*\*  
0000 6 \*  
0000 7 \* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY  
0000 8 \* DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.  
0000 9 \* ALL RIGHTS RESERVED.  
0000 10 \*  
0000 11 \* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED  
0000 12 \* ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE  
0000 13 \* INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER  
0000 14 \* COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  
0000 15 \* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY  
0000 16 \* TRANSFERRED.  
0000 17 \*  
0000 18 \* THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE  
0000 19 \* AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT  
0000 20 \* CORPORATION.  
0000 21 \*  
0000 22 \* DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS  
0000 23 \* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.  
0000 24 \*  
0000 25 \*  
0000 26 \*\*\*\*\*  
0000 27 .  
0000 28 .  
0000 29 ++  
0000 30 :FACILITY: General Utility Library  
0000 31 :  
0000 32 :ABSTRACT:  
0000 33 :  
0000 34 : This module contains LIB\$MOVC3, which makes the VAX MOVC3 instruction  
0000 35 : available as a callable procedure.  
0000 36 :  
0000 37 :ENVIRONMENT: Runs at any access mode, AST Reentrant  
0000 38 :  
0000 39 :AUTHOR: Steven B. Lionel, CREATION DATE: 28-October-1981  
0000 40 :  
0000 41 :MODIFIED BY:  
0000 42 :  
0000 43 : 1-001 - Original. SBL 28-October-1981  
0000 44 :--

0000 46 .SBTTL DECLARATIONS  
0000 47  
0000 48 : LIBRARY MACRO CALLS:  
0000 49  
0000 50 : NONE  
0000 51  
0000 52 : EXTERNAL DECLARATIONS:  
0000 53  
0000 54 : .DSABL GBL ; Force all external symbols to be declared  
0000 55 : NONE  
0000 56  
0000 57 : MACROS:  
0000 58  
0000 59 : NONE  
0000 60  
0000 61 : EQUATED SYMBOLS:  
0000 62  
0000 63 : NONE  
0000 64  
0000 65 : OWN STORAGE:  
0000 66  
0000 67 : NONE  
0000 68  
0000 69 : PSECT DECLARATIONS:  
0000 70  
0000 71 : .PSECT \_LIB\$CODE PIC, USR, CON, REL, LCL, SHR, -  
0000 72 : EXE, RD, NOWRT, LONG  
0000 73

0000 75 .SBTTL LIB\$MOVC3 - Execute MOVC3 instruction  
0000 76 :++  
0000 77 FUNCTIONAL DESCRIPTION:  
0000 78  
0000 79 LIB\$MOVC3 makes the VAX MOVC3 instruction available as  
0000 80 a callable procedure.  
0000 81  
0000 82 The source is moved to the destination. The operation is  
0000 83 such that overlap of the source and destination does not  
0000 84 affect the result.  
0000 85  
0000 86 For more information, see the VAX-11 Architecture Handbook.  
0000 87  
0000 88 CALLING SEQUENCE:  
0000 89  
0000 90 status.wlc.v = LIB\$MOVC3 (length.rwu.r, source.rz.r, dest.wz.r)  
0000 91  
0000 92 FORMAL PARAMETERS:  
0000 93  
0000 94 length = 4 ; The number of bytes to move from source  
0000 95 ; to dest. Passed by reference. The maximum  
0000 96 ; value is 65535.  
0000 97 source = 8 ; The source to move from. Passed by reference.  
0000 98  
0000 99 dest = 12 ; The destination to move to. Passed by  
0000 100 ; reference.  
0000 101  
0000 102  
0000 103 IMPLICIT INPUTS:  
0000 104  
0000 105 NONE  
0000 106  
0000 107 IMPLICIT OUTPUTS:  
0000 108  
0000 109 NONE  
0000 110  
0000 111 COMPLETION STATUS:  
0000 112  
0000 113 SSS\_NORMAL Procedure successfully completed.  
0000 114  
0000 115  
0000 116 SIDE EFFECTS:  
0000 117  
0000 118 NONE  
0000 119  
0000 120 --  
0000 121  
003C 0000 122 .ENTRY LIB\$MOVC3, ^M<R2,R3,R4,R5> ; Entry point  
0002 123  
OC BC 08 BC 04 BC 28 0002 124 MOVC3 @length(AP), -  
0009 125 @source(AP), -  
0009 126 @dest(AP)  
0009 127  
50 01 D0 0009 128 MOVL #1, R0 ; SSS\_NORMAL  
04 000C 129 RET ; return to caller  
000D 130  
000D 131 .END ; End of module LIB\$MOVC3

LIB\$MOVC3  
Symbol table

- Execute MOVC3 instruction

I 10

16-SEP-1984 00:06:02 VAX/VMS Macro V04-00  
6-SEP-1984 11:09:12 [LIBRTL.SRC]LIBMOVC3.MAR;1

Page 4  
(3)

DEST = 0000000C  
LENGTH = 00000004  
LIB\$MOVC3 = 00000000 RG 01  
SOURCE = 00000008

+-----+  
! Psect synopsis !  
+-----+

PSECT name	Allocation	PSECT No.	Attributes	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE
. ABS	00000000 ( 0.)	00 ( 0.)	NOPIC USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE
_LIB\$CODE	0000000D ( 13.)	01 ( 1.)	PIC USR	CON	REL	LCL	SHR	EXE	RD	NOWRT	NOVEC	LONG

+-----+  
! Performance indicators !  
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.04	00:00:00.94
Command processing	116	00:00:00.33	00:00:02.82
Pass 1	66	00:00:00.23	00:00:01.90
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	37	00:00:00.19	00:00:01.37
Symbol table output	2	00:00:00.01	00:00:00.01
Psect synopsis output	2	00:00:00.01	00:00:00.01
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	254	00:00:00.81	00:00:07.05

The working set limit was 900 pages.

1239 bytes (3 pages) of virtual memory were used to buffer the intermediate code.

There were 10 pages of symbol table space allocated to hold 4 non-local and 0 local symbols.

131 source lines were read in Pass 1, producing 10 object records in Pass 2.

0 pages of virtual memory were used to define 0 macros.

+-----+  
! Macro library statistics !  
+-----+

Macro library name	Macros defined
\$_255\$DUA28:[SYSLIB]STARLET.MLB;2	0

0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LIS\$:\$LIBMOVC3/OBJ=OBJ\$:\$LIBMOVC3 MSRC\$:\$LIBMOVC3/UPDATE=(ENH\$:\$LIBMOVC3)

0208 AH-BT13A-SE  
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION  
CONFIDENTIAL AND PROPRIETARY

LIBLOC  
LIS

LIBLUN  
LIS

LIBMOVC3  
LIS

LIBMOVTC  
LIS

LIBPOLYF  
LIS

LIBINSEQTI  
LIS LIBINTOUE  
LIS LIBLEXICA  
LIS

LIBPKARIT  
LIS

LIBMATCHC  
LIS

LIBPOLYO  
LIS

LIBBLOCKUP  
LIS LIBPLINE  
LIS

LIBMOVC5  
LIS

LIBLEN  
LIS

LIBMSG  
LIS

LIBINSU  
LIS

LIBMATCH  
LIS

LIBMOVTC  
LIS